Maryland Green Registry MEMBER

The Maryland Green Registry promotes and recognizes sustainable practices at organizations of all types and sizes. Members agree to share at least five environmental practices and one measurable result while striving to continually improve their environmental performance.

University of Maryland University College (UMUC)

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Higher Education
Member since October 2009

Management And Leadership

☑ **Environmental Policy Statement**

The University of Maryland University College is committed to reducing the environmental impact associated with its' facilities and operations, and seeks to be an exemplary advocate for sustainability among Maryland higher education institutions. Moreover, UMUC is committed to creating educational opportunities for its students, faculty, and staff to reduce their personal environmental footprint.

☑ **Environmental Team**

Members of the GHG Taskforce comprise the environmental team at UMUC. These staff members record, monitor and recommend features to improve upon current policies and procedures. The mission of the committee through the quarterly meetings is to adhere to the climate action plan as the university moves towards its goal of a more efficient and effective set of operations in the direction of carbon neutrality.

In terms of UMUC's core mission of education, UMUC is offering more sustainability and climate education opportunities for Faculty and Staff than it ever has before including educational materials and events. The highlight of the University's recent efforts is a 2015 Earth Day speaking event with 50+ attendees. UMUC also hosted a Green Recycling Event, which included paper shredding, clothing collection and electronics disposal services. This event was

held at the Academic Center at Largo on a Saturday in May 2014 for faculty, staff, and students.

☑ **Annual Environmental Goals**

A participating member of the American College and University President's Climate Commitment signed by the UMUC president, in 2008. UMUC performed its first greenhouse gas inventory for fiscal years 2007 to 2008. UMUC has a Climate Action Plan that includes 13 strategic goals to improve operations and has set a goal to be 90% to 100% carbon neutral by 2050.
Normalized by community size or physical space, UMUC's GHG emissions have decreased annually since 2008. Each year UMUC is emitting fewer GHG emissions per student served and per gross square foot of space, which is an important indicator of success. While the most important driver of decreased GHGs in the period of 2011 to 2013 has been shifts in student commuting patterns, it's worth noting decreased electricity and energy consumption per square foot of physical space, which can be traced directly to energy efficiency improvements in UMUC's new and existing buildings (see Table 1).

Table 1. GHG and energy metrics, 2008-2013 with annual changes*

Metric	2008	2011	*08-11% Change*	2012	*11-12% Change*	2013	*12-13% Change*
$MTCO_2e$/Student	1.28	1.07	-16.4%	0.76	-29.0%	0.72	-4.7%
$MTCO_2e$/ 1000 GSF Physical Space	28.61	22.83	-20.2%	18.62	-18.4%	17.54	-5.8%
$MTCO_2e$/ Comm. Member	1.10	0.93	-15.9%	0.66	-29.4%	0.63	-4.7%
$MTCO_2e$/ HDD+CDD	3.99	3.76	-5.7%	3.75	-0.2%	3.12	-16.7%
MMBTU/Student	18.86	15.93	-15.5%	12.72	-20.2%	12.93	1.6%
MMBTU/ 1000 GSF Physical Space	420.65	339.33	-19.3%	311.43	-8.2%	313.05	0.5%
MMBTU/ Comm. Member	16.24	13.81	-15.0%	10.98	-20.5%	11.16	1.7%
MMBTU/ HDD+CDD	58.65	55.87	-4.7%	62.72	12.3%	55.71	-11.2%
$MTCO_2e$/ MMBTU	0.068	0.067	-1.1%	0.060	-11.1%	0.056	-6.3%

* Calculated on gross emissions (does not include subtracted $MTCO_2e$ as a result of RECs)

☑ **Environmentally Preferable Procurement**

As applicable, Energy Star products are the preferred product for purchases at UMUC. All requisitions are reviewed prior to issuing a purchase order to ensure the most efficient merchandise is purchased. Language is incorporated in request for proposals (RFP) which requests information about the

company's sustainability practices. Procurement staff, as well as those on the environmental team, research, recommend and consider products that lead the university towards campus wide sustainability.

UMUC is committed to the following environmentally preferable procurement strategies:

- *Procurement of more fuel-efficient vehicles and potentially hybrid electric vehicles;*
- *Procurement of more recycled paper (as opposed to virgin paper);*
- *Continue promotion of water conservation measures through marketing and/or by working directly with major water users such as the UMUC Marriott College Park Hotel and their guests (e.g., reduce towel replacement for guests staying longer than one night, low flow shower heads).*

☑ **Environmentally Preferable Products and Services**

We offer online classes, which have a lower carbon footprint than face-to-face classes. UMUC has course offerings in its Environmental Management Program with content area in climate change and sustainability. New courses in the Environmental Management Program have been added since 2012. Additionally, undergraduate students participate in the online Environmental Management 900 club, which coordinates seminars and discussion groups.

Graduates from Environmental Management in CY14:
Bachelors degrees: 70
Masters degree: 94
Post Bacc. Cert: 9

The Schedule of Classes is available online. The number of schedule of classes printed has been reduced in great numbers over the last several years and for those publications that are printed it is created using recycled paper.

Waste

☑ **Recycling**

UMUC has a "desk side" recycling program and has achieved an overall recycling rate of 78% for 2014.

In 2016 implementation of a Recycling Information Program will be instituted which will include different methods of educating staff on helpful, useful tips to improve upon recycling. Banners will run monthly on the internal website. One month will be a recycling tip. This tip will inform the staff what can and cannot be recycled. The next month the banner will display information on a specific fact about recycling. For example; it takes 70% less energy to make

recycled paper than it does to make new paper. Hands on displays on recycling will also be featured in 2016.

Other noteworthy recycling efforts include approximately 8,000 tons on construction debris from four different building renovation projects.

Incorporating environmental features to our regional sites is an ongoing process. In 2013 we established a Recycling Program at our leased site in Waldorf, Maryland. Recycle containers were incorporated throughout the building, a commercial container placed on site for daily use and while working on this project, the property manager also installed a bike rack and replaced landscaping with native plant material. Efforts continue to work with other project managers at regional sites to improve and/or create sustainability measures.

Materials recycled at UMUC include: office paper, newspaper, plastic, aluminum, batteries, ink cartridges, electronic equipment, cardboard, bulbs, metals.

☑ **Composting**

71 short tons of composted food waste were generated in CY 2014 from the UMUC Academic Center at Largo and the UMUC Conference Center in Adelphi.

Energy

☑ **Energy Efficiency**

UMUC's Academic Center at Largo has instilled an energy model, which establishes all standard operating procedures to adhere to the purchase and installation of materials that are energy efficient. All lighting, materials, water reduction products and landscaping was designed for energy efficiency. Light sensors were installed in all offices at the Largo site. These sustainable features were also incorporated into the renovation of the Adelphi Student & Faculty Service Center (which was renamed Administration Building), the renovation of a second building in Largo, Maryland as well as the Conference Center in Adelphi, Maryland. The facilities in Largo both have energy conserving white roofs.

To further conserve energy, UMUC went from T8 to T5 lighting in all facilities, and where cost effective, the University will be upgrading to LED. In addition, we switched motors in the air handlers to high efficiency where

applicable and installed CO_2 monitors to regulate the dampers. We also added variable frequency drivers where applicable.

In the spring and summer of 2015, UMUC undertook a major parking garage lighting retrofit with assistance from utility rebates. The project included replacing the original (1992) 468 light fixtures with LED's. Breakdown of the types of lights replaced: 343; 175watt metal halides, 48; 400 watt metal halides, 48 fluorescent tubes, 23 fluorescent 8 watt exit lights, 6 exterior175 watt metal halide wall fixtures, all were replaced with high efficiency LEDs. Sensors were installed on 439 lights. The new lights will save 546,233 kilowatt-hours per year, a 65% reduction in electricity use in the garage. The total project cost of $258,000 was supported by $107,000 in Pepco rebates, leaving UMUC with an out-of-pocket cost of $151,000. With an expected annual electricity cost savings of $76,500 UMUC anticipates recovering the up-front cost in less than 24 months.

Transportation

☑ **Employee Commute**

The University continues to promote alternative transportation including commuter connections, preferred parking for carpoolers and high efficiency vehicles, bike racks, and Metro. The following resources encourage alternative commuting by employees:

- *UMUC created a policy for teleworking and also established a four-day work week as optional;*
- *Each facility is within walking distance to public transportation;*
- *A dual Electric Vehicle Charging Station is located at the UMUC Academic Center surface parking lot in Largo, Maryland;*
- *Bike Racks are also located at each of the UMUC owned facilities;*
- *UMUC employees and students are able to utilize the UM College Park bus system known as "Shuttle-UM";*
- *Largo and Adelphi sites have reserved parking for fuel efficient vehicles and/or carpoolers.*

☑ **Efficient Business Travel**

UMUC has provided a number of options to staff including rideshare programs, and public transportation options via metro, local bus routes, etc. UMUC has an ongoing contract for transit shuttle service, which is open to all UMUC staff, faculty and students. When large meetings are held shuttles are

provided for staff to travel to a neighboring UMUC campus (i.e., Adelphi to Largo).

Teleconferencing equipment and satellite offices are available at all UMUC facilities. Hoteling office space is available at Largo and Adelphi.

Travelling between buildings for mail delivery has been reduced from two runs a day to one.

The UMUC Master Plan outlines hoteling office space for the future, which will ensure space is used efficiently and reduce UMUC's physical and energy footprint.

☑ **Fleet Vehicles**

Three out of four UMUC vehicles accept E85 fuel and the University will use E85 fuel when accessible and affordable.

Water

☑ **Water Conservation**

Low flow fixtures (i.e., toilets, faucets, showerheads) as well as waterless urinals have been installed at UMUC owned facilities. Energy Star washing machines are used at the Adelphi hotel. Our landscape guidelines outline procedures for manual watering to be done throughout the season, but not more than twice a week. Currently UMUC has discontinued all exterior watering.

☑ **Stormwater Management and Site Design**

The Leroy Merritt Center for the Art of Joseph Sheppard at the UMUC Inn and Conference Center has a 2,112 square foot green roof that keeps energy demand down and decreases harmful stormwater runoff into the Chesapeake Bay.

Green Building

☑ ***LEED Platinum for Commercial Interiors:***

UMUC/Marriott College Park Hotel and Conference Center, Adelphi, MD – 2015

LEED Gold *for Commercial Interiors:*

1601 McCormick Drive, Largo, MD - 2013

The Administration Building in Adelphi, MD – 2013
The UMUC Academic Center at Largo, MD - 2010
Certified:

The UMUC Hotel Addition is LEED Certified under the New Construction Rating System in 2005.

The College Park Hotel and Conference Center (formally the Inn & Conference Center) located in Adelphi, MD is Green Seal Certified - - the only hotel with this distinction in Maryland. Also a member of Maryland Green Travel.

All UMUC facilities are LEED-certified. Each building is equipped with low-flow toilets, high-efficiency lighting and appliances, and light sensors. By taking advantage of these cutting-edge facility management technologies, UMUC has captured significant electricity savings and reduced GHG emissions.

Award:

Received Award of Excellence from the University and College Designers Association (UCDA) 2014 for our LEED Displays in each of the Gold certified buildings. Award was received for Best Environmental Message.

Profile Updated February 2016